Economics Information

Ontario

A SURVEY OF CUSTOM FARMWORK RATES CHARGED IN ONTARIO, 1982

ECONOMICS BRANCH

ONTARIO MINISTRY OF AGRICULTURE AND FOOD
LEGISLATIVE BUILDINGS, TORONTO, ONTARIO, M7A 1B6

ECONOMICS INFORMATION

A SURVEY OF CUSTOM FARMWORK RATES CHARGED IN ONTARIO, 1982

by
G.A. Fisher

Economics Branch
Ontario Ministry of Agriculture and Food
Legislative Buildings, Queen's Park
Toronto, Ontario M7A 1B6
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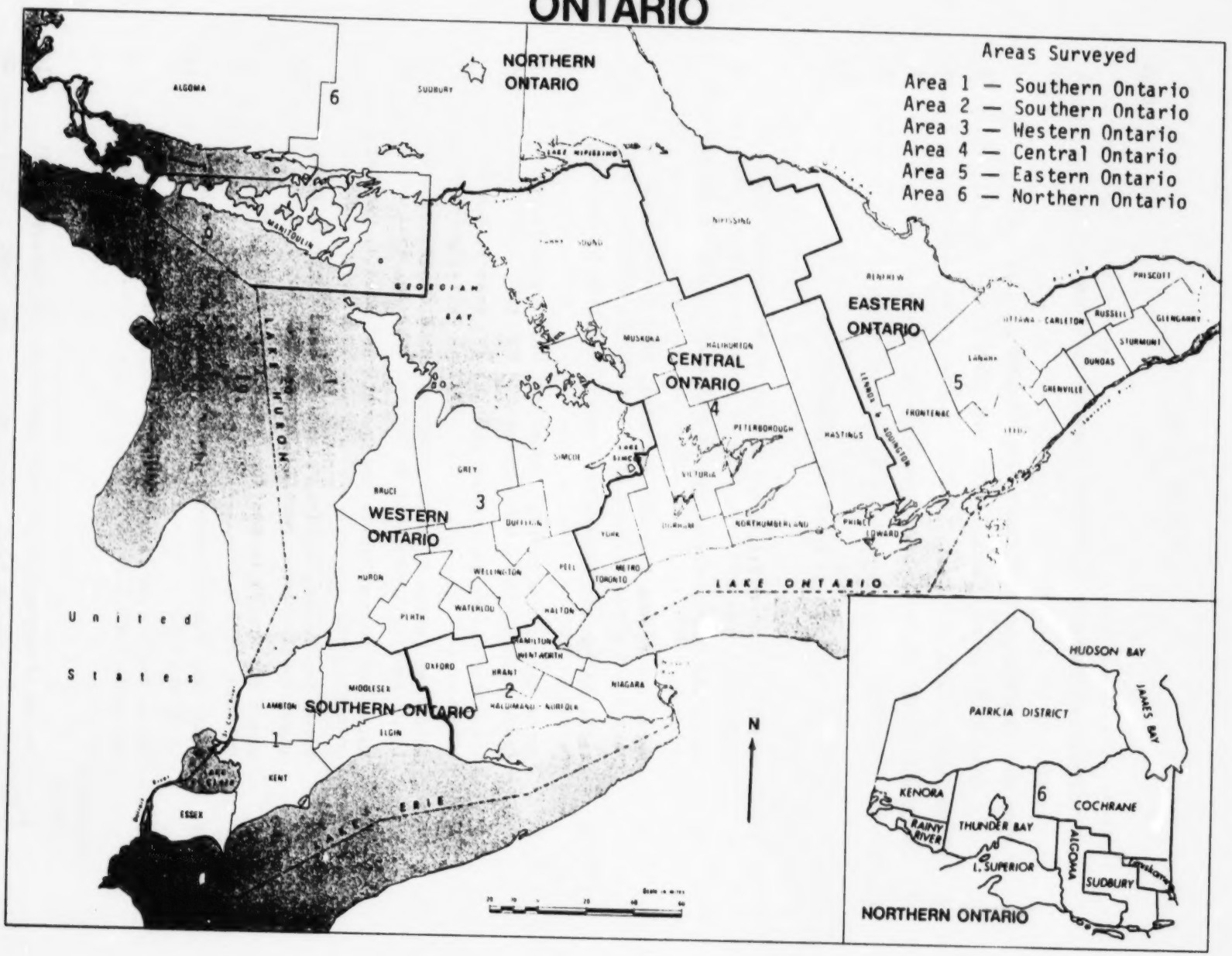
Areas Surveyed
Area 1 — Southern Ontario
Area 2 — Southern Ontario
Area 3 — Western Ontario
Area 4 — Central Ontario
Area 5 — Eastern Ontario
Area 6 — Northern Ontario
NORTHERN ONTARIO
EASTERN ONTARIO
CENTRAL ONTARIO
WESTERN ONTARIO
SOUTHERN ONTARIO
LAKE HURON
LAKE ONTARIO
LAKE ERIE
GEORGIAN BAY
United States
ALGOMA
SUDBURY
MANITOULIN
NIPISSING
PARRY SOUND
RENFREW
PRESCOTT
RUSSELL
GLENGARRY
OTTAWA - CARLETON
STORMONT
DUNDAS
GRENVILLE
LANARK
FRONTENAC
LENNOX & ADDINGTON
HASTINGS
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NORTHUMBERLAND
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MUSKOKA
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NIAGARA
MIDDLESEX
LAMBTON
ELGIN
KENT
ESSEX
N
HUDSON BAY
JAMES BAY
PATRICIA DISTRICT
KENORA
RAINY RIVER
THUNDER BAY
COCHRANE
ALGOMA
L. SUPERIOR
SUDBURY
NORTHERN ONTARIO

FOREWORD

In November 1982, the Economics Branch of the Ontario Ministry of Agriculture and Food (OMAF) conducted a survey of custom farmwork rates charged during 1982 for six areas of Ontario. Over 800 mail-back survey forms were sent to custom operators, with over 400 being returned. Each custom operator was asked to volunteer information on custom services provided, schedule of rates charged for 1982, and equipment and labor provided. All information was treated confidentially. This report updates the 1981 survey of custom farm rates charged in Ontario.

The results of the 1982 survey are presented in Tables 1 through 12. For each of the six survey areas, the ranges of rates, the most frequently quoted rates, and the average rates are given for the most common operations performed. The information in this report may be used as a guide by custom operators and by farmers using custom services, BUT IT SHOULD NOT BE INTERPRETED AS RECOMMENDATIONS.

The custom work survey rates are reported by areas as follows.

Area 1—Southern Ontario: Essex, Kent, Lambton, Middlesex, and Elgin counties.

Area 2—Southern Ontario: Oxford and Brant counties; and regional municipalities of Haldimand-Norfolk, Niagara, and Hamilton-Wentworth.

Area 3—Western Ontario: Huron, Perth, Bruce, Grey, Wellington, Dufferin, and Simcoe counties; and regional municipalities of Waterloo, Peel, and Halton.

Area 4—Central Ontario: Victoria, Northumberland, Peterborough, Hastings, and Prince Edward counties; and regional municipalities of York and Durham.

Area 5—Eastern Ontario: Lennox and Addington, Frontenac, Leeds, Lanark, Renfrew, Grenville, Dundas, Stormont, Russell, Prescott, and Glengarry counties; and the regional municipality of Ottawa-Carleton.

Area 6—Northern Ontario: Algoma, Cochrane North and South, Kenora, Manitoulin, Nipissing, Rainy River, and Timiskaming.

OBSERVATIONS AND COMMENTS ON CUSTOM FARMWORK SERVICES

If today's farmers are to meet the challenge of changing cost-price relationships, they need good management as well as efficient farming operations. The services offered by custom work operators play an important part in Ontario's farming activities. With the trend toward increased mechanization, many farmers have overinvested in specialized machinery in an attempt to reduce labor requirements and increase farm efficiency. By using custom work services, farmers can obtain the benefit of these specialized machines without having to buy them. Many cannot economically afford to own and operate such equipment for the amount of work on their farms. Custom work services also allow farmers to use their labor for other purposes.

Custom rates should cover all costs, such as interest on investment, depreciation, repairs, maintenance, housing, insurance, grease, oil, and fuel (where applicable), and labor; and leave a profit for the operator. The supply and demand for custom work services in any area will be reflected in the custom rates charged. Low rates may reflect the willingness of some farmers or machinery owners to do additional work to help offset the ownership costs of the machinery. They may also reflect good operating conditions such as large, level, obstruction-free fields and weed-free crops, which allow custom operators to work at normal or above normal speeds. High custom rates can indicate a shortage of operators willing to do custom work. They can also indicate poor weather conditions, awkward field shapes or sizes, and hard or stony soil conditions, which cause above normal breakages and increased costs to custom operators.

The data in this report show that custom rates vary — in some cases quite widely. Some custom operators expressed concern over the increasing costs of machinery, machinery repairs and fuel. Others were concerned about the problems of adjusting their rates to meet increased costs at a time of declining farm prices. Custom operators who know the operating costs for their machines and the conditions they must work under can compare their own rates with the survey rate averages for their areas.

Most custom operators in Ontario perform their services without any type of written agreement. In some cases, disputes have occurred about custom farmwork services provided. Custom hiring is a business arrangement and the terms of the arrangement should be written into a formal agreement.

Some of the items to be considered in a formal contract are:

1. Operation(s) to be performed;
2. Timeliness of the operation;
3. Rate schedule to be used;
4. Managerial practices to be followed; and
5. Payment considerations.

Other considerations that could be included are: the responsibility in case of machine breakdown; the role of the farmer in assisting the custom operator; and arrangements to be made on notice of contract cancellation.

Farmers who are thinking about buying new machines can get an idea of the rates being charged in their area for the various services custom operators perform. In addition to rates charged, farmers should consider other factors in hiring custom work, such as the availability of custom operators in their area to do the required operation and the timeliness needed in doing the work.

CUSTOM TILLAGE AND PLANTING

Depending on the area, and the number of replies received, custom charges for plowing, discing, and planting were reported on a per-acre

and/or per-hour basis. In all areas, plowing rates varied with the conditions under which custom operators worked. These conditions included extra heavy soils, size of field, obstruction, time of plowing (such as spring or fall) and the kinds of crop residues handled such as cornstalks and long-term alfalfa or other sod fields. In some areas, custom operators charged an hourly rate for some tillage operations.

Some custom operators made a distinction in the discing rate charged depending on field obstructions, soil texture, shape of field, and whether harrows or a cultipacker were trailed behind the discs. Extra charges were usually made when added equipment was pulled behind a tandem disc or field cultivator.

If preemergent sprays or fertilizers, or both were applied at planting time, custom operators usually charged more for applying the materials. Rates charged for custom planting varied widely in some areas because operators included these additional charges. In most cases, farmers delivered the materials — seed, fertilizers, sprays, water — to the field.

Custom operators who charged by the hour for planting corn, beans, and small grains felt this method was fair to both the farmers and themselves. Farmers can speed up the planting operation if they help handle the fertilizer and seed. By using an hourly basis, custom operators can more easily calculate planting charges when fields are irregular and exact acreages unknown.

CUSTOM WEED CONTROL AND FERTILIZER APPLICATIONS

Some custom operators brought their own water supply tanks while others insisted that water be readily available. In some areas, rates were reported for the application and immediate incorporation of preemergent sprays into the soil. The ready supply of water may have had a bearing on the rates charged.

Farmers supplied the materials for most weed-spraying operations. In some cases, where a small amount of a cheaper chemical was used, the rate included the cost of the material. To avoid misunderstanding, the rate and the material used should be clearly agreed upon by the farmer and the custom operator.

In some areas, rates were provided for applying anhydrous fertilizers but not for other nitrogen fertilizers. Rates varied between and within areas depending on who supplied the applicator and delivered the anhydrous supply tanks to the farm.

CUSTOM HARVESTING BEANS, SMALL GRAINS, AND CORN

Rates for combining varied because of crop lodging, weed growth, muddy fields, and other poor operating conditions. Some custom operators who normally charged by the acre charged by the hour if they were hired to open fields or if muddy or other abnormal conditions prevailed.

Combining rates varied widely in some areas because some custom operators supplied additional equipment such as wagons, elevators, and augers. Custom corn picking rates were not obtained in all survey areas. These rates also varied depending on the equipment supplied.

Custom operators in some areas quoted hourly rates for combining. Because of the difference in combine sizes, the range in rates obtained was quite wide. Understandably, four- and six-row combines harvest more acres per hour than two two-row combines. See Appendix Table 1 for some guidance as to the rates in acres per hour for different combine sizes. No rates were reported for those custom operations where an insufficient number of replies was received.

Trucking rates for grains varied depending on the distance from the farm to the elevator, the facilities for loading and unloading, and the time of year. Truckers sometimes charged less per bushel for handling grain when there were convenient farm loading facilities and during non-harvest or less busy periods. On the other hand, when loading facilities were poor and during the harvest rush, some truckers charged their standard rates while others charged more to compensate for slow loading and delivery.

Rates for drying operations varied among custom operators supplying this service, because of the different drying systems and methods of charging. Therefore, custom drying charges were not reported because of the different ways of charging for this service.

The majority of custom farm drying operations are now using the drying charges as established by the Ontario Grain and Feed Dealers Association. These tables are in metric measure and show the number of kilograms of wet corn and soybeans required to yield the number of dry tonnes. Copies of these tables are shown in the Appendix of this report. The elevator charges per tonne for drying corn using either propane or natural gas at different moisture levels are provided in the tables. These drying charges can be used as a guide in establishing custom rates for farm drying operations. These elevator drying charges do not include costs for handling grains, however, so an added cost per bushel may be made to cover handling charges.

CUSTOM SILO FILLING

Rates for silo filling of corn were most commonly figured on an hourly basis. Some operators still charged according to silo diameter and height. Yields are difficult to determine when charging by the ton, especially with larger or horizontal silos. There were insufficient replies from operators charging by the ton and by diameter to report rates for any area.

Custom operators prefer to charge by the hour because it is fairer to all concerned. They can go faster with a light crop and therefore charge less than a standard per-acre rate. If they have to travel a long distance from field to silo, the cost will be higher to the grower. It is also much easier to establish a total cost, especially when a bunker silo has been filled.

Rates for filling varied, depending on the combinations of number of men, number and size of tractors, size and type of harvester, number and type of forage wagons, and blower with or without a recutter attachment. In this survey, it was found that two groups of silo filling equipment were common to all areas of Ontario. One group consisted of two tractors, two-row harvester, blower, wagons, and two men. The other group consisted of one to three tractors, self-propelled harvester, blower, wagons, and one to three men. Depending on circumstances encountered, there were some variations within each grouping. For example, the number of men supplied to power the equipment varied according to conditions and area. Therefore, for each group in each area, a wide range in charges per hour occurred. Tractors with higher horsepower, for example, are able to move more tonnage into the silo per hour than tractors with lower horsepower.

The custom silo filler may make some adjustments in his charges by allowing a rate per hour for each additional man supplied as well as for each tractor supplied in addition to his usual silo filling equipment.

CUSTOM HAY HARVESTING

In all areas, swathing consisted of cutting and conditioning hay in one operation. Custom rates for conventional baling included the twine and varied within each survey area depending on the extra equipment supplied. Some custom operators charged more per bale with a bale stooker or wagon pulled behind the baler. The custom baling of large round bales occurred in all survey areas except for Southern Ontario areas 1 and 2.

The custom silo filling of haylage, unless some unusual conditions occur, would be the same as for custom silo filling of corn in most areas.

AERIAL OPERATIONS

This is the first year that custom rates for aerial applications and spraying were collected. Because of the numbers, no attempt was made to provide information on rates charged for any one area of Ontario. With only one or two responses, certain aerial operations were not published.

Some custom aerial applicators charge on a per-pound or per-load basis. The rates in this report are representative of these charges on a per-acre basis.

Table 1.—Rates for Custom Tillage, Planting, Weed Control, and Fertilizer Applications, Area 1, Southern Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars per acre	
TILLAGE				
Plowing:				
Moldboard	44	13.15	12.00	9.00-17.80
Chisel	17	10.97	10.00	8.00-14.50
Discing	20	5.94	5.00	3.50- 9.00
Cultivating	23	5.53	5.00	4.00- 7.00
PLANTING				
Corn & soybeans	35	7.30	8.00	5.00-10.00
Small grains	13	6.67	7.00	4.00- 8.00
WEED CONTROL[a]				
Spraying	25	5.18	5.00	3.00-10.00
Incorporating[b]	11	7.75	8.50	5.00- 9.00
Row cultivating	4	4.75	4.00	4.00- 6.00
Rotary hoeing	4	3.00	3.00	2.00- 4.00
FERTILIZING				
Anhydrous	12	6.58	6.00	5.00- 8.50

[a] Spraying and incorporating does not include any materials.

[b] Incorporating included the application of the spray material and working the material into the ground.

Table 2.—Rates for Custom Harvesting Operations, Area 1, Southern Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
HARVESTING CORN				
Picking, per acre	7	31.86	35.00	23.00- 40.00
Combining, per acre	60	27.75	28.00	22.00- 40.00
Trucking, per bushel	27	.13	.14	.08- .15
HARVESTING SMALL GRAINS AND SOYBEANS, PER ACRE				
Small grains:				
Swathing	12	7.99	8.00	6.00- 11.00
Combining	50	21.73	20.00	16.00- 30.00
Soybeans	56	23.92	25.00	20.00- 30.00
FORAGE OPERATIONS				
Hay:				
Swathing, per acre	13	9.15	8.00	7.00- 15.00
Baling, per bale	9	.28	.30	.20- .35
Silo filling, per hour:[a]				
Group 1	6	77.50	100.00	55.00-100.00
Group 2	4	106.25	125.00	65.00-125.00

[a]The following combinations were used.

Group 1: 1 or 2 tractors, 2-row harvester, blower, wagons, and 2 men.

Group 2: 1 or 2 tractors, SP 2- to 4-row harvester, blower, wagons, and 2 men.

NOTE: Adjustments can be made in silo filling operations by allowing a rate per hour for each additional man and tractor supplied.

Table 3.—Rates for Custom Tillage, Planting, Weed Control, and Fertilizer Applications, Area 2, Southern Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
TILLAGE				
Plowing, moldboard:				
Per acre	46	12.71	12.00	9.00-18.00
Per hour	4	37.50	..	30.00-45.00
Soil saver, per acre	5	11.40	10.00	10.00-15.00
Discing, per acre	23	7.30	7.00	5.00-10.00
Cultivating, per acre	14	6.50	7.00	4.00- 9.00
PLANTING, PER ACRE				
Corn & soybeans	32	8.04	8.00	6.00-15.00
Small grains	15	7.13	6.00	5.00-10.00
WEED CONTROL, PER ACRE[a]				
Incorporating[b]	14	10.46	10.00	7.00-20.00
Spraying	21	5.48	5.00	3.50-10.00
FERTILIZING, PER ACRE				
Anhydrous	10	8.20	7.00	5.00-15.00

[a] Spraying and incorporating does not include any materials.

[b] Incorporating included the application of the spray material and working the material into the ground.

Table 4.—Rates for Custom Harvesting Operations, Area 2, Southern Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
HARVESTING CORN				
Picking, per acre	4	26.75	27.00	25.00- 28.00
Combining:				
Per acre	51	28.41	30.00	24.00- 40.00
Per hour	9	79.22	100.00	48.00-100.00
Trucking:				
Per bushel	9	.14	.14	.10- .15
Per tonne	13	5.65	6.00	4.00- 7.10
HARVESTING SMALL GRAINS AND SOYBEANS, PER ACRE				
Combining:				
Small grains	47	20.02	20.00	16.00- 40.00
Soybeans	15	27.83	30.00	24.00- 35.00
FORAGE OPERATIONS				
Hay:				
Swathing, per hour	4	32.00	..	22.00- 39.00
Baling, per bale	12	.32	.30	.25- .40
Silo filling, per hour:[a]				
Group 1	11	88.18	100.00	50.00-115.00
Group 2	7	109.29	100.00	55.00-175.00

[a]The following combinations were used.
Group 1: 2 tractors, 2-row harvester, blower, wagons, and 2 men.
Group 2: 1 to 3 tractors, SP 2- or 3-row harvester, blower, wagons, and 1 to 3 men.

NOTE: Adjustments can be made in silo filling operations by allowing a rate per hour for each additional man and tractor supplied.

Table 5.—Rates for Custom Tillage, Planting, Weed Control, Fertilizer Applications, Area 3, Western Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
TILLAGE				
Plowing, moldboard:				
Per acre	52	12.91	12.00	10.00-20.00
Per hour	8	45.62	45.00	30.00-60.00
Discing, per acre	21	6.71	6.00	4.00-10.00
Cultivating:				
Per acre	31	5.62	5.00	4.00- 8.00
PLANTING, PER ACRE				
Corn & soybeans	51	7.83	8.00	5.00-12.00
Small grains, drilling	24	6.84	7.00	5.00-10.00
WEED CONTROL, PER ACRE				
Incorporating[a]	10	9.39	9.00	6.00-14.00
Spraying	36	4.40	5.00	2.50- 6.00
Row cultivating	3	4.32	..	3.96- 5.00
MANURE HANDLING				
Loading & spreading solid manure[b]	5	39.00	..	25.00-65.00

[a]Incorporating included the application of the spray material and working the material into the ground.

[b]Loading and spreading of solid manure includes 2 tractors, loader, spreader, and 1 man.

NOTE: Spraying and incorporating does not include any materials.

Table 6.—Rates for Custom Harvesting Operations, Area 3, Western Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
HARVESTING CORN				
Combining:				
Per acre	59	28.74	30.00	20.00- 35.00
Per hour	11	101.82	100.00	70.00-125.00
Trucking, per tonne	19	6.17	6.00	4.00- 8.00
HARVESTING SMALL GRAINS AND SOYBEANS				
Swathing grains, per ac.	28	7.81	8.00	5.00- 12.00
Combining grains:				
Per acre	61	20.92	20.00	16.50- 25.00
Per hour	13	90.00	100.00	50.00-120.00
Combining soybeans, per acre	17	24.94	25.00	20.00- 32.00
HARVESTING WHITE BEANS, PER ACRE				
Combining	5	23.40	25.00	20.00- 25.00
Pulling & windrowing	8	12.12	10.00	8.00- 15.00
FORAGE OPERATIONS				
Swathing hay:				
Per acre	37	8.96	8.00	5.00- 14.00
Per hour	5	26.20	30.00	18.00- 30.00
Baling hay, per bale:				
Small rectangular	19	.31	.30	.24- .50
Large round	13	6.15	6.00	5.00- 8.00
Silo filling, per hour:[a]				
Group 1	17	82.64	..	50.00-120.00
Group 2	10	111.30	..	70.00-180.00
SNOW REMOVAL				
Per hour	19	31.58	30.00	25.00- 45.00

[a]The following combinations were used.

Group 1: 1 or 2 tractors, 2-row harvester, wagons, blower, and 2 men.

Group 2: 1 to 3 tractors, SP 2- or 3-row harvester, blower, wagons, and 1 to 3 men.

NOTE: Adjustments can be made in silo filling operations by allowing a rate per hour for each additional man and tractor supplied.

Table 7.—Rates for Custom Tillage, Planting, Weed Control, Fertilizer Applications, Area 4, Central Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
TILLAGE[a]				
Plowing:				
Per acre	27	12.96	12.00	10.00- 16.00
Per hour	7	57.57	60.00	35.00-100.00
Discing:				
Per acre	12	6.54	6.00	4.50- 10.00
Per hour	7	40.43	35.00	30.00- 60.00
Cultivating:				
Per acre	17	5.76	6.00	4.00- 7.00
Per hour	4	38.25	..	30.00- 48.00
PLANTING				
Corn:				
Per acre	31	8.04	8.00	5.00- 11.00
Per hour	6	30.83	30.00	25.00- 40.00
Small grains, per acre	14	6.73	7.00	4.00- 9.00
WEED CONTROL, PER ACRE[b]				
Spraying	20	5.20	5.00	2.80- 8.00
Incorporating[c]	6	8.42	9.50	6.00- 9.50
FERTILIZER, PER ACRE				
Anhydrous	6	6.83	6.50	6.00- 8.00

[a] Per hour rates for the tillage operations of plowing, discing, and cultivating differ according to the size of tractor and equipment used to perform the operations.

[b] Spraying and incorporating does not include any materials.

[c] Incorporating included the application of the spray material and working the material into the ground.

Table 8.—Rates for Custom Harvesting Operations, Area 4, Central Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
HARVESTING CORN				
Combining:				
Per acre	21	28.33	30.00	24.00- 32.00
Per hour	11	80.00	75.00	55.00-120.00
Trucking, per tonne	8	6.66	6.00	5.00- 8.00
HARVESTING SMALL GRAINS				
Combining:				
Per acre	27	22.24	25.00	16.00- 29.00
Per hour	13	61.73	60.00	35.00- 90.00
FORAGE OPERATIONS				
Swathing hay:				
Per acre	9	10.11	10.00	9.00- 12.00
Per hour	9	33.11	35.00	20.00- 45.00
Baling hay, per bale:				
Small rectangular	11	.32	.30	.25- .40
Silo filling, per hour:[a]				
Group 1	16	68.62	..	40.00- 90.00
Group 2	4	111.75	..	76.00-155.00
SNOW REMOVAL				
Per hour	13	31.38	30.00	15.00- 60.00

[a]The following combinations were used.

Group 1: 1 or 2 tractors, 2-row harvester, wagons, blower, and 1 or 2 men.

Group 2: 1 or 2 tractors, SP 2- or 3-row harvester, wagons, blower, and 1 or 2 men.

NOTE: Adjustments can be made in silo filling operations by allowing a rate per hour for each additional man and tractor supplied.

Table 9.—Rates for Custom Tillage, Planting, Weed Control, Fertilizer Applications, Area 5, Eastern Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
TILLAGE[a]			dollars	
Plowing:				
Per acre	16	15.00	15.00	10.00-22.00
Per hour	22	48.73	50.00	20.00-95.00
Discing:				
Per acre	6	8.35	6.00	6.00-15.00
Per hour	18	53.89	60.00	25.00-95.00
Cultivating:				
Per acre	5	5.74	6.00	5.00- 6.10
Per hour	8	48.13	50.00	25.00-80.00
PLANTING				
Corn:				
Per acre	29	8.52	8.00	5.00-12.50
Per hour	12	32.38	45.00	20.00-45.00
Small grains:				
Per acre	6	7.25	8.00	5.00-10.50
WEED CONTROL[b]				
Spraying:				
Per acre	27	5.08	5.00	3.50- 7.00
Per hour	5	33.00	20.00	20.00-60.00
Incorporating,[c] per acre	3	10.00	..	9.00-11.00
FERTILIZING, PER ACRE				
Anhydrous	5	6.45	5.00	5.00- 9.50
Spread fertilizer	3	3.67	..	3.00- 4.00

[a]Per hour rates for the tillage operations of plowing, discing, and cultivating differ according to the size of tractor and equipment used to perform the operations.

[b]Spraying and incorporating does not include any materials.

[c]Incorporating included the application of the spray material and working the material into the ground.

Table 10.—Rates for Custom Harvesting Operations, Area 5, Eastern Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
HARVESTING CORN				
Picking, per hour	7	44.29	35.00	20.00- 65.00
Combining:				
Per acre	6	29.83	30.00	27.00- 35.00
Per hour	37	89.59	100.00	50.00-125.00
Trucking, per tonne	9	6.17	6.00	5.00- 8.00
HARVESTING SMALL GRAINS				
Combining:				
Per acre	8	21.25	20.00	20.00- 25.00
Per hour	39	68.13	75.00	40.00- 90.00
FORAGE OPERATIONS				
Swathing:				
Per acre	7	6.86	8.00	5.00- 9.00
Per hour	15	30.80	35.00	20.00- 45.00
Baling hay, per bale:				
Small rectangular	11	.35	.35	.30- .50
Large round bales	7	6.36	5.50	5.00- 8.00
Silo filling, per hour:[a]				
Group 1	26	82.12	75.00	50.00-130.00
Group 2	7	109.28	100.00	60.00-150.00
SNOW REMOVAL				
Per hour	12	44.75	..	17.00- 70.00

[a]The following combinations were used.

Group 1: 1 or 2 tractors, 2-row harvester, wagons, blower, and 1 or 2 men.

Group 2: 1 or 2 tractors, SP 2- or 3-row harvester, blower, wagons, and 1 or 2 men.

NOTE: Adjustments can be made in silo filling operations by allowing a rate per hour for each additional man and tractor supplied.

Table 11.—Rates for Custom Farmwork Operations, Area 6, Northern Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars	
TILLAGE				
Plowing:				
Per acre	3	11.72	..	9.00-14.00
Per hour	7	31.14	25.00	20.00-58.00
Discing:				
Per acre	3	6.50	..	6.00- 7.00
Per hour	7	33.29	..	18.00-55.00
PLANTING				
Small grains:				
Per acre	3	6.86	..	6.00- 8.00
Per hour	4	35.00	..	18.00-55.00
WEED CONTROL				
Spraying, per acre[a]	5	3.64	4.50	2.00- 4.50
HARVESTING SMALL GRAINS				
Swathing, per hour	4	23.25	20.00	20.00-28.00
Combining:				
Per acre	5	26.44	30.00	19.00-30.00
Per hour	12	58.00	60.00	26.00-90.00
FORAGE OPERATIONS				
Swathing hay, per hour	7	23.25	25.00	20.00-35.00
Baling, large round bales, per bale	13	4.48	5.00	2.00- 5.94
SNOW REMOVAL				
Per hour	5	19.00	20.00	10.00-30.00
GRINDING FEED				
Per hour	4	32.50	30.00	20.00-50.00

[a]Spraying does not include any materials.

Table 12.—Rates for Custom Farmwork Operations, Aerial Spraying, Ontario, 1982

Operation	No. rptg.	Average	Most frequent	Range
			dollars per acre	
APPLICATION[a]				
Seeding	5	7.59	..	6.50- 8.35
Fertilizer	9	7.44	6.50	6.00-10.00
SPRAYING[a]				
Herbicides	10	5.84	5.50	4.50- 7.50
Insecticides	10	6.24	6.50	4.50-10.00
Fungicides	4	5.75	..	4.50- 7.50

[a]Aerial applications and spraying do not include any materials.

APPENDIX

Appendix Table 1.—Rates of Accomplishing Farm Operations in Ontario, 1981

Operation	No. rptg.	Acres per hour		
		Average	Most frequent	Range
TILLAGE				
Plowing:				
60-85 HP	10	2.3	2	1½-2½
86-115 HP	13	3.4	3	2½-4
116-135 HP	9	3.9	4	3-5
136-160 HP	13	4.6	5	3.6
161-200 HP	3	6.8	6½	6½-7½
Discing:				
60-85 HP	6	5.3	5	3½-8
86-115 HP	5	9.5	10	7½-11
136-160 HP	6	10.0	11	7-14
Incorporating, 80-100 HP	5	6.7	7	4-9
PLANTING				
Corn:				
4-row	49	3.9	4	2½-5
6-row	8	6.7	6	4½-9
8-row	6	7.6	8	5½-9
Small grains, 15- to 17-run	5	4.2	4½	3-5
SUMMER OPERATIONS				
Spraying:				
Tractor & sprayer	28	7.8	7	5-12
SP sprayer	8	16.9	20	10-25
Row cultivate	3	8.3	8	7-10
Anhydrous application:				
100 HP	4	5.0	5	4
150 HP	3	8.7	8	8-10
HARVESTING SMALL GRAINS				
Swathing:				
10'	9	3.0	3	2-4
12'	5	3.6	3½	3-5
Combining:[a]				
10'	10	2.7	2½	2-3
11'	4	2.8	2½	2-4
12'	6	3.6	4	2-5
13'	21	4.0	4	2½-9
14'	11	5.1	4½	3-10
15' to 18'	8	5.6	6	3-10

(Appendix Table 1 is concluded on the next page.)

Appendix Table 1 — concluded

	No. rptg.	Acres per hour		
		Average	Most frequent	Range
HARVESTING CORN & BEANS				
Combine corn:				
2-row	4	2.0	1½	1½-3
4-row	44	3.2	3½	2½-5
6-row	11	4.3	4	3-7
Corn picking:				
1-row	3	1.0	1	1-1½
2-row	6	1.7	2	1-2
3-row	2	3.0	3	3
Combine soybeans:				
13' & under	11	3.6	4	3-4
14' & over	5	4.6	5	3-6
Drying, batch dried:				
Bushels per hour	3	115.0	115	100-125
HARVESTING FORAGES				
Swathing hay:				
Swather, 10'	9	3.1	3	2-4
Swather, 12'	5	3.6	4	3-5
Haybine, 9'	4	2.8	3	2-4
Silo filling:[b]				
Group 1	3	1.5	1½	1-2
Group 2	19	2.1	2	1½-4
Group 3	7	2.2	2	1½-3
Group 4	4	3.1	3	2-4
Group 5	3	4.2	4	4-4½
Baling, dropped on ground:				
Bales per hour (small rectangular)	3	250.0	250	225-275

[a] The width of the cutting bar was used to rate the combines, although it is realized that the size of the cleaning and the separation area are also important in rating the capacity of combines.

[b] The following combinations were used.
Group 1: tractor drawn, 1-row harvester with wagons.
Group 2: tractor drawn, 2-row harvester with wagons.
Group 3: self-propelled, 2-row harvester with wagons.
Group 4: Self-propelled, 3-row harvester with wagons.
Group 5: Self-propelled or tractor drawn harvesters with trucks.

Source: *Custom Farmwork Survey in Ontario, 1974.*

Appendix Table 2.—Corn Conversion Table, Using Natural Gas, 1982

Wet kilograms to dry tonnes chart showing number of kilograms of wet corn at varying degrees of moisture that is required to yield a dry tonne including allowance of one (1) percent invisible loss. Charges for drying assessed per tonne of dry corn.

Moisture	Wet corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.
%	kg	$	%	kg	$	%	kg	$
15.5	1000.0							
15.6	1011.3		19.6	1061.6		23.6	1117.2	
15.7	1012.5		19.7	1062.9		23.7	1118.7	
15.8	1013.7	4.30	19.8	1064.3	8.50	23.8	1120.1	10.45
15.9	1014.9		19.9	1065.6		23.9	1121.6	
16.0	1016.1		20.0	1066.9		24.0	1123.1	
16.1	1017.3		20.1	1068.3		24.1	1124.6	
16.2	1018.5		20.2	1069.6		24.2	1126.0	
16.3	1019.8	5.25	20.3	1070.9	8.75	24.3	1127.5	10.65
16.4	1021.0		20.4	1072.3		24.4	1129.0	
16.5	1022.2		20.5	1073.6		24.5	1130.5	
16.6	1023.4		20.6	1075.0		24.6	1132.0	
16.7	1024.7		20.7	1076.3		24.7	1133.5	
16.8	1025.9	6.15	20.8	1077.7	9.00	24.8	1135.0	10.90
16.9	1027.1		20.9	1079.1		24.9	1136.5	
17.0	1028.4		21.0	1080.4		25.0	1138.0	
17.1	1029.6		21.1	1081.8		25.1	1139.6	
17.2	1030.8		21.2	1083.2		25.2	1141.1	
17.3	1032.1	7.10	21.3	1084.5	9.20	25.3	1142.6	11.15
17.4	1033.3		21.4	1085.9		25.4	1144.1	
17.5	1034.6		21.5	1087.3		25.5	1145.7	
17.6	1035.8		21.6	1088.7		25.6	1147.2	
17.7	1037.1		21.7	1090.1		25.7	1148.8	
17.8	1038.4	7.55	21.8	1091.5	9.45	25.8	1150.3	11.40
17.9	1039.6		21.9	1092.9		25.9	1151.9	
18.0	1040.9		22.0	1094.3		26.0	1153.4	
18.1	1042.2		22.1	1095.7		26.1	1155.0	
18.2	1043.4		22.2	1097.1		26.2	1156.6	
18.3	1044.7	7.75	22.3	1098.5	9.70	26.3	1158.1	11.65
18.4	1046.0		22.4	1099.9		26.4	1159.7	
18.5	1047.3		22.5	1101.3		26.5	1161.3	
18.6	1048.6		22.6	1102.8		26.6	1162.9	
18.7	1049.9		22.7	1104.2		26.7	1164.4	
18.8	1051.2	8.00	22.8	1105.6	9.95	26.8	1166.0	11.90
18.9	1052.4		22.9	1107.0		26.9	1167.6	
19.0	1053.7		23.0	1108.5		27.0	1169.2	
19.1	1055.0		23.1	1109.9		27.1	1170.8	
19.2	1056.4		23.2	1111.4		27.2	1172.4	
19.3	1057.7	8.25	23.3	1112.8	10.20	27.3	1174.1	12.10
19.4	1059.0		23.4	1114.3		27.4	1175.7	
19.5	1060.3		23.5	1115.7		27.5	1177.3	

(Appendix Table 2 is concluded on the next page.)

Appendix Table 2 — concluded

Moisture	Wer corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.
%	kg	$	%	kg	$	%	kg	$
27.6	1178.9		32.1	1257.0		36.6	1346.3	
27.7	1180.5		32.2	1258.9		36.7	1348.4	
27.8	1182.2	12.35	32.3	1260.8	14.55	36.8	1350.5	19.50
27.9	1183.8		32.4	1262.6		36.9	1352.7	
28.0	1185.5		32.5	1264.5		37.0	1354.8	
28.1	1187.1		32.6	1266.4		37.1	1357.0	
28.2	1188.8		32.7	1268.3		37.2	1359.1	
28.3	1190.4	12.60	32.8	1270.1	14.80	37.3	1361.3	20.10
28.4	1192.1		32.9	1272.0		37.4	1363.5	
28.5	1193.8		33.0	1273.9		37.5	1365.7	
28.6	1195.4		33.1	1275.8		37.6	1367.8	
28.7	1197.1		33.2	1277.7		37.7	1370.0	
28.8	1198.9	12.85	33.3	1279.7	15.00	37.8	1372.2	20.75
28.9	1200.5		33.4	1281.6		37.9	1374.5	
29.0	1202.2		33.5	1283.5		38.0	1376.7	
29.1	1203.9		33.6	1285.4		38.1	1378.9	
29.2	1205.6		33.7	1287.4		38.2	1381.1	
29.3	1207.3	13.10	33.8	1289.3	15.65	38.3	1383.4	21.40
29.4	1209.0		33.9	1291.3		38.4	1385.6	
29.5	1210.7		34.0	1293.2		38.5	1387.9	
29.6	1212.4		34.1	1295.2		38.6	1390.1	
29.7	1214.1		34.2	1297.2		38.7	1392.4	
29.8	1215.9	13.35	34.3	1299.1	16.30	38.8	1394.7	22.00
29.9	1217.6		34.4	1301.1		38.9	1396.9	
30.0	1219.3		34.5	1303.1		39.0	1399.2	
30.1	1221.1		34.6	1305.1		39.1	1401.5	
30.2	1222.8		34.7	1307.1		39.2	1403.8	
30.3	1224.6	13.55	34.8	1309.1	16.95	39.3	1406.2	22.65
30.4	1226.3		34.9	1311.1		39.4	1408.5	
30.5	1228.1		35.0	1313.1		39.5	1410.8	
30.6	1229.9		35.1	1315.2		39.6	1413.1	
30.7	1231.7		35.2	1317.2		39.7	1415.5	
30.8	1233.4	13.80	35.3	1319.2	17.55	39.8	1417.8	23.30
30.9	1235.2		35.4	1321.3		39.9	1420.2	
31.0	1237.0		35.5	1323.3		40.0	1422.6	
31.1	1238.8		35.6	1325.4		40.1	1424.9	
31.2	1240.6		35.7	1327.4		40.2	1427.3	
31.3	1242.4	14.05	35.8	1329.5	18.20	40.3	1429.7	23.95
31.4	1244.2		35.9	1331.6		40.4	1432.1	
31.5	1246.0		36.0	1333.6		40.5	1434.5	
31.6	1247.9		36.1	1335.7		40.6	1436.9	
31.7	1249.7		36.2	1337.8		40.7	1439.3	
31.8	1251.5	14.30	36.3	1339.9	18.85	40.8	1441.8	24.55
31.9	1253.4		36.4	1342.0		40.9	1444.2	
32.0	1255.2		36.5	1344.1		41.0	1446.7	

Source: *Ontario Grain and Feed Dealers Association.* Effective September 1, 1982.

Appendix Table 3.—Corn Conversion Table, Using Propane, 1982

Wet kilograms to dry tonnes chart showing number of kilograms of wet corn at varying degrees of moisture that is required to yield a dry tonne including allowance of one (1) percent invisible loss. Charges for drying assessed per tonne of dry corn

Moisture	Wet corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.
%	kg	$	%	kg	$	%	kg	$
15.5	1000.0							
15.6	1011.3		19.6	1061.6		23.6	1117.2	
15.7	1012.5		19.7	1062.9		23.7	1118.7	
15.8	1013.7	4.95	19.8	1064.3	9.80	23.8	1120.1	12.00
15.9	1014.9		19.9	1065.6		23.9	1121.6	
16.0	1016.1		20.0	1066.9		24.0	1123.1	
16.1	1017.3		20.1	1068.3		24.1	1124.6	
16.2	1018.5		20.2	1069.6		24.2	1126.0	
16.3	1019.8	6.05	20.3	1070.9	10.05	24.3	1127.5	12.25
16.4	1021.0		20.4	1072.3		24.4	1129.0	
16.5	1022.2		20.5	1073.6		24.5	1130.5	
16.6	1023.4		20.6	1075.0		24.6	1132.0	
16.7	1024.7		20.7	1076.3		24.7	1133.5	
16.8	1025.9	7.10	20.8	1077.7	10.35	24.8	1135.0	12.55
16.9	1027.1		20.9	1079.1		24.9	1136.5	
17.0	1028.4		21.0	1080.4		25.0	1138.0	
17.1	1029.6		21.1	1081.8		25.1	1139.6	
17.2	1030.8		21.2	1083.2		25.2	1141.1	
17.3	1032.1	8.15	21.3	1084.5	10.60	25.3	1142.6	12.80
17.4	1033.3		21.4	1085.9		25.4	1144.1	
17.5	1034.6		21.5	1087.3		25.5	1145.7	
17.6	1035.8		21.6	1088.7		25.6	1147.2	
17.7	1037.1		21.7	1090.1		25.7	1148.8	
17.8	1038.4	8.65	21.8	1091.5	10.90	25.8	1150.3	13.10
17.9	1039.6		21.9	1092.9		25.9	1151.9	
18.0	1040.9		22.0	1094.3		26.0	1153.4	
18.1	1042.2		22.1	1095.7		26.1	1155.0	
18.2	1043.4		22.2	1097.1		26.2	1156.6	
18.3	10j4.7	8.95	22.3	1098.5	11.15	26.3	1158.1	13.40
18.4	1046.0		22.4	1099.9		26.4	1159.7	
18.5	1047.3		22.5	1101.3		26.5	1161.3	
18.6	1048.6		22.6	1102.8		26.6	1162.9	
18.7	1049.9		22.7	1104.2		26.7	1164.4	
18.8	1051.2	9.20	22.8	1105.6	11.45	26.8	1166.0	13.65
18.9	1052.4		22.9	1107.0		26.9	1167.6	
19.0	1053.7		23.0	1108.5		27.0	1169.2	
19.1	1055.0		23.1	1109.9		27.1	1170.8	
19.2	1056.4		23.2	1111.4		27.2	1172.4	
19.3	1057.7	9.50	23.3	1112.8	11.70	27.3	1174.1	13.95
19.4	1059.0		23.4	1114.3		27.4	1175.7	
19.5	1060.3		23.5	1115.7		27.5	1177.3	

(Appendix Table 3 is concluded on the next page.)

Appendix Table 3 — concluded

Moisture	Wet corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.	Moisture	Wet corn (divisor)	Drying chg.
%	kg	$	%	kg	$	%	kg	$
27.6	1178.9		32.1	1257.0		36.6	1346.3	
27.7	1180.5		32.2	1258.9		36.7	1348.4	
27.8	1182.2	14.20	32.3	1260.8	16.70	36.8	1350.5	22.40
27.9	1183.8		32.4	1262.6		36.9	1352.7	
28.0	1185.5		32.5	1264.5		37.0	1354.8	
28.1	1187.1		32.6	1266.4		37.1	1357.0	
28.2	1188.8		32.7	1268.3		37.2	1359.1	
28.3	1190.4	14.50	32.8	1270.1	17.00	37.3	1361.3	23.15
28.4	1192.1		32.9	1272.0		37.4	1363.5	
28.5	1193.8		33.0	1273.9		37.5	1365.7	
28.6	1195.4		33.1	1275.8		37.6	1367.8	
28.7	1197.1		33.2	1277.7		37.7	1370.0	
28.8	1198.8	14.80	33.3	1279.7	17.25	37.8	1372.2	23.85
28.9	1200.5		33.4	1281.6		37.9	1374.5	
29.0	1202.2		33.5	1283.5		38.0	1376.7	
29.1	1203.9		33.6	1285.4		38.1	1378.9	
29.2	1205.6		33.7	1287.4		38.2	1381.1	
29.3	1207.3	15.05	33.8	1289.3	18.00	38.3	1383.4	24.60
29.4	1209.0		33.9	1291.3		38.4	1385.6	
29.5	1210.7		34.0	1293.2		38.5	1387.9	
29.6	1212.4		34.1	1295.2		38.6	1390.1	
29.7	1214.1		34.2	1297.2		38.7	1392.4	
29.8	1215.9	15.35	34.3	1299.1	18.75	38.8	1394.7	25.30
29.9	1217.6		34.4	1301.1		38.9	1396.9	
30.0	1219.3		34.5	1303.1		39.0	1399.2	
30.1	1221.1		34.6	1305.1		39.1	1401.5	
30.2	1222.8		34.7	1307.1		39.2	1403.8	
30.3	1224.6	15.60	34.8	1309.1	19.45	39.3	1406.2	26.05
30.4	1226.3		34.9	1311.1		39.4	1408.5	
30.5	1228.1		35.0	1313.1		39.5	1410.8	
30.6	1229.9		35.1	1315.2		39.6	1413.1	
30.7	1231.7		35.2	1317.2		39.7	1415.5	
30.8	1233.4	15.90	35.3	1319.2	20.20	39.8	1417.8	26.80
30.9	1235.2		35.4	1321.3		39.9	1420.2	
31.0	1237.0		35.5	1323.3		40.0	1422.6	
31.1	1238.8		35.6	1325.4		40.1	1424.9	
31.2	1240.6		35.7	1327.4		40.2	1427.3	
31.3	1242.4	16.15	35.8	1329.5	20.95	40.3	1429.7	27.50
31.4	1244.2		35.9	1331.6		40.4	1432.1	
31.5	1246.0		36.0	1333.6		40.5	1434.5	
31.6	1247.9		36.1	1335.7		40.6	1436.9	
31.7	1249.7		36.2	1337.8		40.7	1439.3	
31.8	1251.5	16.45	36.3	1339.9	21.65	40.8	1441.8	28.25
31.9	1253.4		36.4	1342.0		40.9	1444.2	
32.0	1255.2		36.5	1344.1		41.0	1446.7	

Source: *Ontario Grain and Feed Dealers Association.* Effective September 1, 1982.

Appendix Table 4.—Soybean Conversion Table, Using Natural Gas, 1982

At moisture levels over 14 percent an allowance of ½ of 1 percent is included as invisible loss. There is no allowance at moisture levels at 14 percent or less. The divisor, when divided into the total kilograms in a load of soybeans, gives the number of dry tonnes in the load.

Moisture	Soybeans (divisor)	Drying chg.	Moisture	Soybeans (divisor)	Drying chg.	Moisture	Soybeans (divisor)	Drying chg.
%	kg	$	%	kg	$	%	kg	$
10.0	955.6							
10.1	955.6		14.1	1006.2		18.1	1055.3	
10.2	957.7		14.2	1007.3		18.2	1056.6	
10.3	958.8		14.3	1008.5	2.90	18.3	1057.9	9.20
10.4	959.8		14.4	1009.7		18.4	1059.2	
10.5	960.9		14.5	1010.9		18.5	1060.5	
10.6	962.0		14.6	1012.1		18.6	1061.8	
10.7	963.0		14.7	1013.2		18.7	1063.1	
10.8	964.1		4.8	1014.4	3.70	18.8	1064.4	10.00
10.9	965.2		14.9	1015.6		18.9	1065.7	
11.0	966.3		15.0	1016.8		19.0	1067.0	
11.1	967.4		15.1	1018.0		19.1	1068.4	
11.2	968.5		15.2	1019.2		19.2	1069.7	
11.3	969.6		15.3	1020.4	4.60	19.3	1071.0	10.90
11.4	970.7		15.4	1021.6		19.4	1072.3	
11.5	971.8		15.5	1022.8		19.5	1073.7	
11.6	972.9		15.6	1024.1		19.6	1075.0	
11.7	974.0		15.7	1025.3		19.7	1076.3	
11.8	975.1		15.8	1026.5	5.30	19.8	1077.7	11.60
11.9	976.2		15.9	1027.7		19.9	1079.0	
12.0	977.3		16.0	1028.9		20.0	1080.4	
12.1	978.4		16.1	1030.2		20.1	1081.7	
12.2	979.5		16.2	1031.4		20.2	1083.1	
12.3	980.6		16.3	1032.6	6.10	20.3	1084.4	12.40
12.4	981.7		16.4	1033.9		20.4	1085.8	
12.5	982.9		16.5	1035.1		20.5	1087.2	
12.6	984.0		16.6	1036.3		20.6	1088.5	
12.7	985.1		16.7	1037.6		20.7	1089.9	
12.8	986.2		16.8	1038.8	6.90	20.8	1091.3	13.20
12.9	987.4		16.9	1040.1		20.9	1092.7	
13.0	988.5		17.0	1041.3		21.0	1094.1	
13.1	989.6		17.1	1042.6		21.1	1095.4	
13.2	990.8		17.2	1043.8		21.2	1096.8	
13.3	991.9		17.3	1045.1	7.70	21.3	1098.2	14.00
13.4	993.1		17.4	1046.4		21.4	1099.6	
13.5	994.2		17.5	1047.6		21.5	1101.0	
13.6	995.4		17.6	1048.9		21.6	1102.4	
13.7	996.5		17.7	1050.2		21.7	1103.8	
13.8	997.7		17.8	1051.5	8.40	21.8	1105.2	14.70
13.9	998.8		17.9	1052.7		21.9	1106.7	
14.0	1000.0		18.0	1054.0		22.0	1108.1	

(Appendix Table 4 is concluded on the next page.)

Appendix Table 4 — concluded

Moisture	Soybeans (divisor)	Drying chg.	Moisture	Soybeans (divisor)	Drying chg.	Moisture	Soybeans (divisor)	Drying chg.
%	kg	$	%	kg	$	%	kg	$
22.1	1109.5		23.1	1123.9		24.1	1138.7	
22.2	1110.9		23.2	1125.4		24.2	1140.2	
22.3	1112.4	15.50	23.3	1126.9	17.20	24.3	1141.7	18.70
22.4	1113.8		23.4	1128.3		24.4	1143.3	
22.5	1115.2		23.5	1129.8		24.5	1144.8	
22.6	1116.7		23.6	1131.3		24.6	1146.3	
22.7	1118.1		23.7	1132.8		24.7	1147.8	
22.8	1119.6	16.30	23.8	1134.3	17.90	24.8	1149.3	19.50
22.9	1121.0		23.9	1135.7		24.9	1150.9	
23.0	1122.5		24.0	1137.2		25.0	1152.4	

NEGOTIATED DEALER HANDLING ALLOWANCE ON SOYBEANS
BASIS 1982 MARKETING AGREEMENT

	dollars per tonne
Up to 150.00	7.90
150.50-200.00	8.50
200.50-250.00	9.30
250.50-300.00	9.90
300.50-350.00	10.80
350.50-400.00	11.60
400.50-450.00	12.20
450.50-500.00	12.80
For each $50.00 over $500.0 per tonne, add	.55

Source: *Ontario Grain & Feed Dealers Association*. Rates effective September 1, 1982.

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